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VHF Marine

HYBRID IP TRANSCEIVER (LTE + VHF MARINE)

World's First*

LTE and VHF Marine Hybrid Transceiver Offshore and Onshore Communication



LTE





* According to Icom research as of February 2024.

LTE and VHF Marine Hybrid Transceiver

Supports Communication at Sea and on Land

The IP-M60 is the world's first hybrid IP transceiver. Combining two modes in one, VHF marine and LTE communications. VHF marine transceiver, which is commonly used worldwide as a means of maritime safety, and a land-based LTE transceiver that can be used to make calls over any distance within a cellular (LTE) coverage area*. The IP-M60 can be used offshore, in ports, rivers, and canals where maritime and business communications are required. It can be used in situations such as rescue boats that need to coordinate with search and rescue agencies, as well as in the operation of yacht racing events.

* According to Icom research as of February 2024.

Four Operating Modes

Mode 1

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Cellular (LTE) Mode



In Cellular mode, communication is through the carrier's LTE (or 3G). Calls can be made anywhere within the carrier's coverage area. In addition, Simultaneous TalkListen[™] provides full-duplex communication in Cellular mode allowing users to talk and listen at the same time like a telephone conversation.

Mode 2

Marine Mode

This mode works as a VHF marine radio that has the same functions and performance as conventional VHF marine radios, such as Icom IC-M25 or IC-M25EURO. VHF Marine is used to ensure the safety of marine traffic between vessels or vessel-to-coast stations.

HYBRID IP TRANSCEIVER (LTE + VHF MARINE)

IP-M60



\lambda Bluetooth



Mode 3

Cellular (LTE) + Marine Mode

Cellular and Marine modes can be used simultaneously (simultaneous reception is possible and audio is MIXED). PTT buttons for Main and Sub-mode make it possible to select the communication mode assigned to each with one touch. The communication mode can be selected quickly without having to switch modes. Simultaneous transmission on both channels is possible by pressing the PTT buttons for the Main and Sub-mode at the same time.

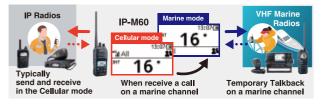


Four Sub-modes — Automatically Select Transmission Mode

Cellular + Marine Mode offers four sub-modes: "Cellular Main", "Marine Main", "Adaptive PTT with Cellular Main", and "Adaptive PTT with Marine Main". Below are examples of "Cellular Main" and "Adaptive PTT with Cellular Main" modes. The same settings can be swapped between Marine and LTE modes.

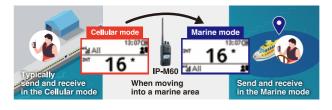
Cellular Main Mode

In the Cellular Main mode, the IP-M60 typically stands by in Cellular mode and initiates calls to cellular groups on pushing the Main PTT button. However, if a call is received on a marine channel, the radio temporary switches to the Marine mode to respond on the marine channel.



Adaptive PTT with Cellular Main Mode

In this mode, the radio remains in the Cellular mode by default and initiates calls to cellular groups when the Main PTT button is pressed. As the operator moves to preprogrammed marine area (GPS point), the radio automatically shifts to the Marine mode and transmits on a marine channel.



Mode 4

Relay Mode — Transfers Received Audio to Another Mode

The Relay Mode transfers received marine audio to the IP radio group, vice versa. When the IP-M60 is used in the Relay Mode, no received voice is heard from the speaker. * The Relay function may be prohibited in some countries.



Common Features for the Cellular (LTE) + Marine Mode

Bluetooth® Technology Enables Wireless Operation

The built-in Bluetooth[®] unit provides a wireless connection between the IP-M60 and an optional Bluetooth[®] headset. It also has a VOX function that enables automatic voice transmission in response to your voice, allowing hands-free operation.



Optional Bluetooth Headset, VS-3

MIL-STD-810 and IP67 Specifications

The IP-M60 is tested to U.S. Military standard environmental tests and dust-tight and waterproof rating of IP67*. It can be

used with peace of mind on decks exposed to rain or splashing water, or in dusty conditions such as during ship repairs.

* 1 metre (3 feet) under water for 30 minutes.



1500 mW Speaker Output, Provide Clear Loud Audio

Icom's custom high-power capacity speaker delivers a loud 1500 mW audio output with advanced acoustic sound clarity for noisy environments.



AquaQuake[™] Draining Functions

Icom's unique AquaQuake[™] function emits a buzzing sound, shedding water from the speaker grill. The IP-M60 provides clear sound even if it gets wet from rain or waves.

Other Features

- Noise Canceling function reduces background noise from transmitting voice
- The Automatic Firmware Update and Provisioning function works through an LTE connection

Cellular (LTE) Mode Functions

Emergency Call Functions*

Simply by pushing the Emergency button, an emergency call can be made with an audible warning to a pre-defined destination. In addition to pressing the Emergency button, the Emergency call can be triggered by the Man Down, Lone Worker, and Motion/Stationary functions. * Emergency call functions work in the Cellular mode.



Emergency button

Status Function Posts the Current Status

Current Status information such as "Break", "Working" and "Meeting" can be posted and referenced from other radios. In addition, predefined short message (up to 32 characters) can be sent to the talkgroup.



Vibration Alert Function Notifies You of an Incoming Call

The Vibration Alert function notifies the user that a call or text message is received with a strong vibration. This function can be configured for individual calls, group calls, all calls, or only when receiving text data, depending on how it is used.

Last Four Minutes Recording*

The IP-M60 has a recording and playback function, so that if you miss something, you can listen to it again immediately. *Maximum recording: 4 minutes or 10 recordings.

Other Features

- · Priority call with high priority authority
- Dual SIM capability to install two SIM cards at the same time
- · One Touch PTT function keeps transmitting while you are talking
- Address book for storing talkgroup IDs





Marine Mode Functions

Dedicated Channel 16 Button

Channel 16 is the international Distress, Emergency and Calling channel. Push the Channel 16 button to monitor the channel.



Dualwatch and Tri-Watch Functions

For example, it is convenient for use in a yacht race, when race announcements are made on a designated channel, while you

are monitoring Channel 16 and using other channel.



Other Features

- Favorite channel scan, Priority channel scan and Auto Scan Start functions
- Weather channel receiver with a Weather Alert function* * Depending on the transceiver version.

SPECIFICATIONS

GENERAL USA EUR AUS Audio output power (8 Ω load, 10% distortion) Internal SP 1500 mW typical 1500 mW typical HM-222H) Operating temperature range -20 °C to +60 °C, -4 °F to +140 °F -15 °C to +55 °C -10 °C to +55 °C Power supply voltage 74 V DC nominal -10 °C to +55 °C -10 °C to +55 °C Power supply voltage 74 V DC nominal -10 °C to +55 °C -10 °C to +55 °C Current drain (approximate) Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA -10 °C to +55 °C Dimensions (Projections not included) 121.7 (H) × 53.7 (W) × 36.6 (D) mm, 4.8 × 2.1 × 1.4 in (with BP-303) -320 g, 11.3 oz (with BP-303) Bluetooth® technology Version: 5.3, Output: Class 1, Protocol: HFP, HSP LTE (4G) /W-CDMA (3G)
(B Ω load, 10% distortion) External SP 1000 mW typical, 1500 mW typical (HM-222H) Operating temperature range -20 °C to +60 °C, -4 °F to +140 °F -15 °C to +55 °C -10 °C to +55 °C Power supply voltage 7.4 V DC nominal -15 °C to +55 °C -10 °C to +55 °C Current drain Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA -00 °C to +53 °C Current drain Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA -00 °C to +53 °C Dimensions (Projections not included) 121.7 (H) × 53.7 (W) × 36.6 (D) mm, 4.8 × 2.1 × 1.4 in (with BP-303) -00 °C to +50 °C Bluetooth® technology Version: 5.3, Output: Class 1, Protocol: HFP, HSP LTE (4G) /W-CDMA (3G)
Operating temperature range -20 °C to +60 °C, -4 °F to +140 °F -15 °C to +55 °C -10 °C to +55 °C Power supply voltage 7.4 V DC nominal 50 Ω -10 °C to +55 °C -10 °C to +55 °C Current drain meedance 50 Ω -00 °C to +60 °C, -4 °F to +140 °F -15 °C to +55 °C -10 °C to +55 °C Current drain meedance 50 Ω -00 °C to +55 °C -10 °C to +55 °C Current drain Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA -00 °C to +53 °C Current drain Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA -00 °C to +53 °C Dimensions (Projections not included) 121.7 (H) × 53.7 (W) × 36.6 (D) mm, 4.8 × 2.1 × 1.4 in (with BP-303) 320 g, 11.3 oz (with BP-303) Weight (approximate) 320 g, 11.3 oz (with BP-303) 320 g, 11.3 oz (with BP-303) Bluetooth® technology Version: 5.3, Output: Class 1, Protocol: HFP, HSP LTE (4G) /W-CDMA (3G) B2, B5 B1, B3, B7, B8, B20 B1, B3, B5, B7, B8, B28 Rated output power 0.25 W Less than -95 dBm at 5% BLER 0.25 W Receiver sensitivity (QPSK) Less than -95 dBm at 5% BLER 0.25 ° 157.425 MHz 156.000 ~ 161.450
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Antenna impedance 50 Ω Current drain (approximate) Receive Max. audio (INT SP) 520 mA, Stand-by 300 mA Dimensions (Projections not included) Transmit Hi (5 W) 1.6 A Dimensions (Projections not included) 121.7 (H) × 53.7 (W) × 36.6 (D) mm, 4.8 × 2.1 × 1.4 in (with BP-303) Weight (approximate) 320 g, 11.3 oz (with BP-303) Bluetooth® technology Version: 5.3, Output: Class 1, Protocol: HFP, HSP LTE (4G) /W-CDMA (3G) WercDMA Network LTE (4G) W-CDMA B2, B5 B1, B3, B7, B8, B20 B1, B3, B5, B7, B8, B28 W-CDMA B2, B5 Rated output power 0.25 W Receiver sensitivity (QPSK) Less than –95 dBm at 5% BLER Compatibility IP501H, IP503H, IP501M, IP500APP, IP730D, IP740D, VE-PG4 VHF Marine IS6.025 ~ 157.425 MHz GENERAL TX Frequency range TX TS6.050 ~ 163.275 MHz 156.000 ~ 163.425 MHz IS6.050 ~ 163.275 MHz 156.000 ~ 163.425 MHz Usable channel groups INT, USA, CAN, WX INT, ATIS*, USA* Type of emission 16
Current drain (approximate)Receive TransmitMax. audio (INT SP) 520 mA, Stand-by 300 mADimensions (Projections not included)121.7 (H) × 53.7 (W) × 36.6 (D) mm, 4.8 × 2.1 × 1.4 in (with BP-303)Weight (approximate)320 g, 11.3 oz (with BP-303)Bluetooth® technologyVersion: 5.3, Output: Class 1, Protocol: HFP, HSPLTE (4G) /W-CDMA (3G)NetworkLTE (4G)Blueto th® technologyVersion: 5.3, Output: Class 1, Protocol: HFP, HSPLTE (4G) /W-CDMA (3G)Weight (approximate)B2, B4, B12NetworkLTE (4G)B2, B5B1, B3, B7, B8, B20NetworkLTE (4G)W-CDMAB2, B5B1, B8B1, B5Rated output power0.25 WCompatibilityIP501H, IP503H, IP501M, IP500APP, IP730D, IP740D, VE-PG4VHF MarineGENERALFrequency rangeTXTX156.025 ~ 157.425 MHzI56.000 ~ 161.450 MHz156.000 ~ 163.275 MHzUsable channel groupsINT, USA, CAN, WXINT, USA, CAN, WXINT, ATIS*, USA*Type of emission16K0G3E (FM)TRANSMITTER
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Frequency range RX 156.050 ~ 163.275 MHz 156.000 ~ 163.425 MHz 156.300 ~ 162.000 MHz Usable channel groups INT, USA, CAN, WX INT, ATIS*, USA* INT, USA, WX Type of emission 16K0G3E (FM) 16K0G3E (FM) 16K0G3E (FM) TRANSMITTER Example 1 1000 mm 1000 mm
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TRANSMITTER
Rated output power 5 W, 1 W (Hi, Low)
Maximum frequency deviation ±5 kHz
Frequency stability ±10 ppm ±1.5 kHz ±10 ppm
Spurious emissions -68 dBc typ. Less than 0.25 µW 0.25 µW typ.
Adjacent channel power More than 70 dB
Audio harmonic distortion Less than 10% (at 60% devitation)
Residual modulation More than 40 dB
RECEIVER
Sensitivity -12 dBµ (0.25 µV) typ. -3 dBµ emf typ. -3 dBµ emf typ. (at 12dB SINAD) (at 20 dB SINAD) (at 20 dB SINAD)
Squelch sensitivity(threshold) -12 dBµ (0.25 µV) typ3 dBµ emf typ3 dBµ emf typ.
Adjacent channel selectivity 70 dB typ. More than 70 dB More than 65 dB
Spurious response 70 dB typ. More than 70 dB More than 65 dB
Intermodulation 70 dB typ. More than 68 dB More than 65 dB

Applicable U.S. Military Specifications & IP Rating

		-	
Standard	MIL 810G		
	Method	Procedure	
Low Pressure	500.5	I, II	
High Temperature	501.5	I, II	
Low Temperature	502.5	I, II	
Temperature Shock	503.5	I-C	
Solar Radiation	505.5	Ι	
Rain Blowing/Drip	506.5	I, III	
Humidity	507.5	II	
Salt Fog	509.5	-	
Dust Blowing	510.5	Ι	
Immersion	512.5	Ι	
Vibration	514.6	Ι	
Shock	516.6	I, IV	

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

IP Rating

ngress Protection	Standard
Dust & Water	IP67 (Dust-tight and waterproof)

Supplied Accessories:

(May differ, or not s	supplied, depend	ling on version)
BP-303 Battery pack	MB-133 Belt clip	FA-S59V Antenna

Measurements of LTE/3G specifications are in according with 3GPP TS-36. Measurements of the VHF marine specifications are in according with TIA/EIA-603 for USA, EN301-178 for EUR and AS/NZS 4415.2-2003 for AUS version. All stated specifications are subject to change without notice or obligation. * Depending on the version.

OPTIONAL ACCESSORIES





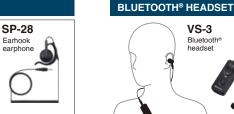


TIE-CLIP MICROPHONES and EARPHONES











VS-3

CARRYING CASE HEADSETS and PTT SWITCH CABLE HS-94 HS-95 HS-97 VS-5MC LC-195 Carrying case (Charging is possible while the Headset with throat microphone PTT switch cable for manual PTT, and VOX operation Neck-arm type headset Earhook type headset case is attached) taton the second

CHARGERS and AC ADAPTERS

BC-226 Multi-connectable rapid charger



BC-228 AC adapter (Required for multiple connections)



(Connectable up to six BC-226)



BC-227 Desktop charger (AC adapter BC-123S supplied)



BATTERY PACK BP-303 Туре Li-ion, 7.2 V 3350 mAh (typ.) 3200 mAh (min.) Capacity Operating Cellular Up to 24 hours Up to 13 hours (5 W) Time* Marine Calculated under the following conditions: Calculated under the following conditions: TX : RX : standby = 5 : 5 : 90 Bluetooth and Backlight are OFF The operating time may be shorter, depending on: The operating mode, and so on. The discussion of the cellular station or the signal strength.

BELL CLI	PS and HANGERS
MB-133	Belt clip (Same as supplied)

MB-136 Belt clip (Swivel type) MB-96N Belt hanger (Swivel type) MB-96F Belt hanger (Fixed type) MB-96FL Belt hanger (Long type)

ANTENNA

FA-S59V 150~174 MHz

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

Icom France s.a.s.

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FOUNDING MEMBER OF

। Net



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Flash code